

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of the Claims:**

1-155. (canceled)

156. (new) An isolated polypeptide comprising amino acids 229-547 of SEQ ID No: 2, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

157. (new) An isolated polypeptide according to claim 156 consisting of amino acids 229-547 in the amino acid sequence set forth in SEQ ID NO: 2.

158. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 739-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

159. (new) A polypeptide according to claim 158 comprising amino acids 229-547 of SEQ ID No: 2, wherein from 1 to 10 amino acids are deleted, substituted, or added.

160. (new) An isolated polynucleotide comprising nucleotides 739-1695 of SEQ ID No: 1, wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

161. (new) An isolated polynucleotide according to claim 160 consisting of nucleotides 739-1695 of SEQ ID NO: 1.

162. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 739-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS,

wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

163. (new) An isolated polypeptide according to claim 156 consisting of amino acids 226-547 of SEQ ID NO:2.

164. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 730-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

165. (new) A polypeptide according to claim 164 comprising amino acids 226-547 of SEQ ID NO: 2, wherein from 1 to 10 amino acids are deleted, substituted, or added.

166. (new) An isolated polynucleotide according to claim 160 consisting of nucleotides 730-1695 in the nucleotide sequence of SEQ ID NO: 1.

167. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 730-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

168. (new) An isolated polypeptide according to claim 156 consisting of amino acids 211-547 SEQ ID NO: 2.

169. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 685-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

170. (new) A polypeptide according to claim 169 comprising amino acids 211-547 of SEQ ID No: 2, wherein from 1 to 10 amino acids are deleted, substituted, or added.

171. (new) An isolated polynucleotide according to claim 160 consisting of nucleotides 685-1695 of SEQ ID NO: 1.

172. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 685-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

173. (new) An isolated polypeptide according to claim 156 consisting of amino acids 206-547 SEQ ID NO: 2.

174. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 670-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

175. (new) A polypeptide according to claim 174 comprising amino acids 206-547 of SEQ ID NO: 2, wherein from 1 to 10 amino acids are deleted, substituted, or added.

176. (new) An isolated polynucleotide according to claim 160 consisting of nucleotides 670-1695 of SEQ ID NO: 1.

177. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 670-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS,

wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

178. (new) An isolated polypeptide according to claim 156 consisting of amino acids 102-547 SEQ ID NO: 2.

179. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 358-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

180. (new) A polypeptide according to claim 179 comprising amino acids 102-547 of SEQ ID No: 2, wherein from 1 to 10 amino acids are deleted, substituted, or added.

181. (new) An isolated polynucleotide according to Claim 160 consisting of nucleotides 358-1695 in the nucleotide sequence of SEQ ID No: 1.

182. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 358-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

183. (new) An isolated polypeptide according to claim 156 consisting of amino acids 91-547 of SEQ ID NO: 2.

184. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 325-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

185. (new) A polypeptide according to claim 184 comprising amino acids 91-547 of SEQ ID No: 2, wherein 1 to 10 amino acids are deleted, substituted, or added.

186. (new) An isolated polynucleotide according to claim 160 consisting of nucleotides 325-1695 of SEQ ID NO: 1.

187. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 325-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

188. (new) An isolated polypeptide according to claim 156 consisting of amino acids 9-547 SEQ ID NO: 2.

189. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 79-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

190. (new) A polypeptide according to claim 189 comprising amino acids 9-547 of SEQ ID No: 2, wherein from 1 to 10 amino acids are deleted, substituted, or added.

191. (new) An isolated polypeptide according to claim 160 consisting of nucleotides 79-1695 of SEQ ID NO: 1.

192. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 79-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS,

wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

193. (new) An isolated polypeptide according to claim 156 consisting of amino acids 1-547 SEQ ID NO: 2.

194. (new) An isolated polypeptide that is encoded by a polynucleotide that hybridizes to a polynucleotide complementary to nucleotides 55-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polypeptide binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

195. (new) A polypeptide according to claim 194 comprising amino acids 1-547 of SEQ ID No: 2, wherein 1 to 10 amino acids are deleted, substituted, or added.

196. (new) An isolated polynucleotide according to claim 160 consisting of nucleotides 55-1695 of SEQ ID NO: 1.

197. (new) An isolated polynucleotide comprising a nucleotide sequence that hybridizes to a polynucleotide complementary to nucleotides 55-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC/0.1% SDS, wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.

198. (new) A vector comprising the polynucleotide according to claim 160.

199. (new) A vector comprising the polynucleotide according to claim 161 inserted into the vector for expression of a polypeptide consisting of amino acids 229-547 of SEQ ID NO: 2.

200. (new) A vector comprising the polynucleotide according to claim 166 inserted into the vector for expression of a polypeptide consisting of amino acids 226-547 of SEQ ID NO: 2.

201. (new) A vector comprising the polynucleotide according to claim 171 inserted into the vector for expression of a polypeptide consisting of amino acids 211-547 of SEQ ID NO: 2.

202. (new) A vector comprising the polynucleotide according to claim 176 inserted into the vector for expression of a polypeptide consisting of amino acids 206-547 of SEQ ID NO: 2.

203. (new) A vector comprising the polynucleotide according to claim 177.

204. (new) A vector comprising the polynucleotide according to claim 181 inserted into the vector for expression of a polypeptide consisting of amino acids 102-547 of SEQ ID NO: 2.

205. (new) A vector comprising the polynucleotide according to claim 186 inserted into the vector for expression of a polypeptide consisting of amino acids 91-547 of SEQ ID NO: 2.

206. (new) A vector comprising the polynucleotide according to claim 191 inserted into the vector for expression of a polypeptide consisting of amino acids 9-547 of SEQ ID NO: 2.

207. (new) A vector comprising the polynucleotide according to claim 196 inserted into the vector for expression of a polypeptide consisting of amino acids 1-547 of SEQ ID NO: 2.

208. (new) An isolated host cell comprising the vector according to claim 198.

209. (new) An isolated host cell comprising the vector according to claim 199 inserted for expression of the polypeptide consisting of amino acids 229-547 of SEQ ID NO: 2.

210. (new) An isolated host cell comprising the vector according to claim 200 inserted for expression of the polypeptide consisting of amino acids 226-547 of SEQ ID NO: 2.

211. (new) An isolated host cell comprising the vector according to claim 201 inserted for expression of the polypeptide consisting of amino acids 211-547 of SEQ ID NO: 2.

212. (new) An isolated host cell comprising the vector according to claim 202 inserted for expression of the polypeptide consisting of amino acids 206-547 of SEQ ID NO: 2.

213. (new) An isolated host cell comprising the vector according to claim 203.

214. (new) An isolated host cell comprising the vector according to claim 204 inserted for expression of the polypeptide consisting of amino acids 102-547 of SEQ ID NO: 2.

215. (new) An isolated host cell comprising the vector according to claim 205 inserted for expression of the polypeptide consisting of amino acids 91-547 of SEQ ID NO: 2.

216. (new) An isolated host cell comprising the vector according to claim 206 inserted for expression of the polypeptide consisting of amino acids 9-547 of SEQ ID NO: 2.

217. (new) An isolated host cell comprising the vector according to claim 207 inserted for expression of the polypeptide consisting of amino acids 1-547 of SEQ ID NO: 2.

218. (new) A probe for screening for a homologue consisting of nucleotides 739-1695 in the nucleotide sequence of SEQ ID NO: 1.

219. (new) An isolated polynucleotide that hybridizes with the probe according to claim 218 and that is an amplification product from a PCR reaction performed using primers consisting of the nucleotide sequences of caatctgatgagaaggtgatg (SEQ ID NO: 4) and acgaggggctggatgggacat (SEQ ID NO: 5), wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a  $\text{Ca}^{2+}$ -dependent manner.